

ABSTRACT OF THE DISCLOSURE

A riffle distributor assembly for influencing the travel properties of a material feed stream 42 moving between a pulverizer 14 and a furnace 12 is part
5 of a feed path 36 having one duct 44A having a branch entry 66A and another
branch duct 44C having a branch entry 66C both downstream of upstream passage
peripheries UPZ defined between adjacent intake vanes 114 through which the
feed stream of the material 42 travels in two segregated portions. A motor drive
assembly 58 moves the intake vanes 114 relative to the incoming flow reference
10 axis IFA, whereupon intake areas defined between adjacent intake vanes 114
moves relative to the incoming flow reference axis IFA such that the travel
properties of the one portion of material in the one branch duct 44A are different
than its travel properties before the movement of intake areas defined between
adjacent intake vanes 114.